

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P242568

Luminaire Tested: S123RDRP-S1165D830-X4F0-XX-UDD-A-W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2024  
Report Number: P242568  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-30)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S123RDRP-S1165D830-X4F0-XX-UDD-A-W  
Description: DEFINE 3 REGRESSED DIRECT RECESSED WITH ASYMMETRIC FLUSH DIFFUSER  
STANDARD LIGHT ENGINE  
Light Source: (92) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

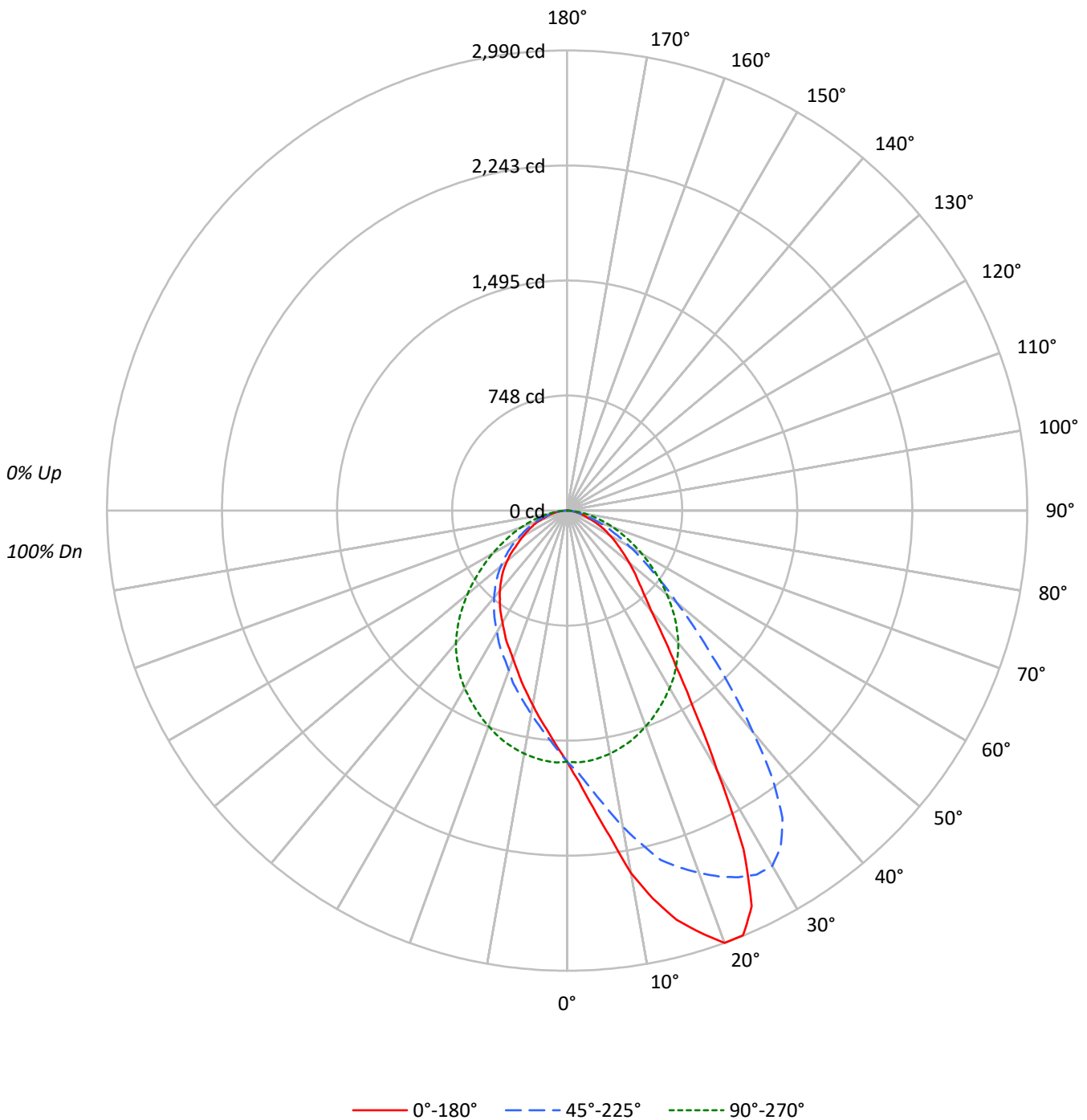
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4062.8 lumens  
Efficiency: N/A  
Efficacy: 98.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.35  
Luminous Opening: Rectangular (W 3.88' x L: 0.23' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 41.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89					87				
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77					74				
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66					64				
4	86	75	67	61	84	74	66	61	71	65	60	69	64	59	67	62	58					56				
5	80	68	60	53	78	67	59	53	65	58	53	63	57	52	61	56	52					50				
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46					44				
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41					39				
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37					36				
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34					32				
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31					29				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	19777	19777	19777	19777	19777
5°	23576	22113	19861	17932	17491
10°	29436	25687	19747	16524	15801
15°	34552	29504	19546	15365	14410
20°	38562	32308	19244	14281	13227
25°	37946	35162	18926	13527	12500
30°	27275	37306	18633	12748	11751
35°	18211	36092	18252	12217	11265
40°	13416	29752	17793	11682	10764
45°	11255	22701	16989	11183	10273
50°	9930	17505	15938	10577	9589
55°	8709	13964	14732	9949	8650
60°	7755	11396	13581	9144	7925
65°	6812	9336	12342	8435	7371
70°	5348	7499	11238	7747	6734
75°	4711	5526	9811	7002	6149
80°	4097	4733	8335	6143	6045
85°	3296	3588	6703	6217	6411

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 60°  
 Vertical Angle: 45°  
 Luminance: 31944 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.2	3.9
10°-20°	501.6	12.3
20°-30°	790.0	19.4
30°-40°	821.5	20.2
40°-50°	702.8	17.3
50°-60°	535.7	13.2
60°-70°	343.2	8.4
70°-80°	164.4	4.0
80°-90°	43.2	1.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1451.8	35.7
0°-40°	2273.4	56.0
0°-60°	3511.9	86.4
0°-90°	4062.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4062.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1632	1632	1632	1632	1632	
5°	1938	1817	1632	1474	1438	199
15°	2753	2351	1558	1224	1148	781
25°	2837	2629	1415	1011	935	1233
35°	1231	2439	1234	826	761	800
45°	657	1324	991	652	599	515
55°	412	661	697	471	409	372
65°	238	326	430	294	257	234
75°	101	118	210	150	131	108
85°	24	26	48	45	46	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1631.6	1631.6	1631.6	1631.6	1631.6	1631.6	1631.6	1631.6	1631.6	1631.6	1631.6
2.5°	1764.3	1767.1	1758.1	1756.7	1746.2	1743.4	1743.4	1728.7	1719.6	1707.8	1700.8
5°	1937.6	1948.7	1943.2	1930.6	1909.6	1904.7	1891.5	1870.5	1846.8	1817.4	1803.5
7.5°	2135.9	2159.0	2154.8	2135.2	2112.9	2098.9	2061.9	2031.9	1986.5	1945.3	1913.1
10°	2391.6	2375.5	2362.9	2344.1	2323.8	2291.0	2251.9	2198.1	2135.9	2087.0	2032.6
12.5°	2583.0	2583.7	2566.9	2547.3	2516.6	2485.9	2435.6	2367.1	2292.4	2216.3	2152.0
15°	2753.4	2757.6	2747.1	2726.8	2686.3	2631.2	2558.5	2531.3	2427.9	2351.1	2274.2
17.5°	2874.9	2875.6	2873.5	2846.3	2802.3	2764.6	2696.8	2633.2	2535.5	2431.4	2328.7
20°	2989.5	2982.5	2983.9	2952.5	2921.7	2876.3	2810.7	2706.6	2629.8	2504.7	2397.9
22.5°	2986.7	2986.7	2993.0	2987.4	2967.1	2935.0	2886.8	2803.0	2699.6	2573.2	2449.6
25°	2837.2	2831.6	2864.4	2873.5	2909.1	2915.4	2900.1	2851.9	2759.0	2629.1	2480.3
27.5°	2481.0	2460.7	2529.2	2596.9	2687.0	2744.3	2803.0	2816.2	2772.2	2666.1	2510.3
30°	1948.7	2014.4	2045.1	2155.5	2278.4	2425.1	2553.6	2675.9	2705.9	2665.4	2543.1
32.5°	1535.2	1590.4	1614.9	1705.7	1818.1	1996.2	2205.1	2390.9	2536.2	2585.1	2523.6
35°	1230.7	1231.4	1290.1	1332.0	1438.2	1614.9	1802.1	2034.0	2264.5	2439.1	2457.2
37.5°	1015.6	1018.4	1056.1	1098.0	1183.2	1282.4	1456.3	1651.9	1929.2	2189.7	2325.2
40°	847.9	854.2	880.8	922.0	979.3	1049.8	1178.3	1359.9	1582.0	1880.3	2124.1
42.5°	740.4	751.6	762.0	791.4	821.4	886.4	984.2	1114.1	1311.0	1589.0	1879.6
45°	656.6	662.2	672.6	687.3	719.4	765.5	835.4	929.7	1097.3	1324.3	1605.8
47.5°	592.3	588.8	600.7	613.3	634.9	668.4	717.3	799.1	924.8	1114.8	1358.5
50°	526.6	526.0	533.6	542.7	563.0	586.0	624.4	682.4	777.4	928.3	1146.9
52.5°	465.2	468.7	473.6	485.4	498.7	516.2	549.7	587.4	665.6	790.7	963.9
55°	412.1	414.2	421.9	428.2	438.6	457.5	479.2	514.1	570.0	660.8	810.9
57.5°	366.0	365.3	373.0	373.7	387.0	403.0	420.5	447.7	490.3	562.3	667.0
60°	319.9	317.8	324.1	329.0	335.3	347.8	361.8	388.4	420.5	470.1	556.7
62.5°	278.0	277.3	281.5	286.4	291.3	302.4	313.6	332.5	356.2	396.0	460.3
65°	237.5	239.6	241.7	243.8	246.6	253.5	264.7	278.7	296.2	325.5	375.1
67.5°	195.6	198.4	199.1	204.0	209.5	213.0	219.3	232.6	245.9	272.4	301.7
70°	150.9	150.2	150.9	153.0	160.6	168.3	177.4	186.5	194.2	211.6	235.4
72.5°	124.3	122.9	125.0	125.0	127.8	128.5	133.4	141.8	152.3	162.7	178.1
75°	100.6	100.6	100.6	100.6	103.4	104.8	106.9	109.0	112.5	118.0	130.6
77.5°	78.2	78.2	79.6	80.3	81.0	81.7	83.1	85.2	86.6	89.4	95.7
80°	58.7	59.4	58.7	59.4	59.4	60.8	61.5	63.6	64.3	67.8	69.8
82.5°	40.5	39.8	40.5	41.2	41.2	42.6	42.6	44.0	44.0	45.4	47.5
85°	23.7	22.4	23.7	23.0	24.4	23.0	23.7	25.1	25.1	25.8	28.6
87.5°	7.0	8.4	7.0	7.7	7.7	8.4	8.4	8.4	9.8	9.1	9.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1631.6	1631.6	1631.6	1631.6	1631.6	1631.6	1631.6	1631.6	1631.6	1631.6	1631.6
2.5°	1698.0	1695.9	1686.1	1674.9	1660.3	1650.5	1642.8	1638.6	1626.0	1610.7	1600.2
5°	1788.8	1767.8	1745.5	1718.2	1693.1	1667.3	1651.2	1632.3	1609.3	1583.4	1565.3
7.5°	1878.9	1842.6	1802.8	1761.6	1719.6	1682.6	1648.4	1620.5	1585.5	1549.9	1525.5
10°	1985.8	1925.7	1863.5	1800.0	1742.0	1687.5	1645.6	1604.4	1560.4	1517.8	1485.7
12.5°	2082.9	1999.0	1925.0	1843.3	1765.0	1697.3	1632.3	1582.0	1526.9	1480.8	1443.0
15°	2161.8	2080.8	1994.1	1875.4	1776.9	1694.5	1621.2	1557.6	1493.3	1437.5	1401.8
17.5°	2244.2	2121.3	2007.4	1915.2	1786.7	1686.8	1600.9	1526.9	1457.0	1399.7	1355.0
20°	2291.7	2173.7	2047.2	1920.8	1795.1	1679.8	1575.8	1491.9	1418.6	1351.5	1311.0
22.5°	2320.3	2182.7	2047.9	1909.6	1774.1	1653.3	1550.6	1456.3	1375.3	1312.4	1260.0
25°	2341.3	2182.0	2035.4	1901.2	1765.0	1635.1	1512.9	1415.1	1329.2	1261.4	1208.4
27.5°	2358.1	2173.7	2005.3	1859.3	1721.7	1589.7	1479.4	1374.6	1288.7	1218.1	1160.2
30°	2362.2	2163.2	1969.7	1808.4	1668.0	1549.2	1430.5	1331.3	1239.1	1163.0	1109.9
32.5°	2367.8	2137.3	1921.5	1747.6	1603.0	1485.7	1380.9	1287.3	1192.3	1117.6	1063.1
35°	2348.3	2131.0	1872.6	1675.6	1531.8	1417.9	1320.8	1233.5	1140.6	1068.0	1012.8
37.5°	2288.9	2096.8	1823.7	1595.3	1446.5	1341.8	1260.7	1181.1	1095.2	1015.6	964.6
40°	2189.0	2040.9	1765.0	1523.4	1366.2	1258.0	1186.7	1124.5	1042.1	968.8	912.9
42.5°	2040.2	1964.8	1709.2	1447.9	1275.4	1172.0	1114.8	1057.5	987.6	912.9	861.2
45°	1851.7	1863.5	1628.8	1366.9	1193.0	1088.2	1031.6	991.1	926.9	865.4	811.6
47.5°	1622.6	1721.7	1542.9	1281.7	1103.6	1005.1	955.5	918.5	873.8	810.2	760.6
50°	1399.0	1557.6	1435.4	1195.8	1020.5	922.7	873.8	845.2	807.4	759.9	713.1
52.5°	1193.0	1366.2	1305.4	1100.1	930.4	843.1	795.6	773.2	745.3	701.3	660.1
55°	1006.5	1179.0	1162.3	1003.7	840.3	759.9	723.6	697.1	676.8	643.3	609.8
57.5°	844.5	1011.4	1014.9	896.8	762.0	680.3	648.9	627.9	614.0	587.4	554.6
60°	692.9	843.1	872.4	788.6	676.8	607.0	576.2	560.2	549.7	529.4	505.7
62.5°	567.2	689.4	723.6	669.1	595.1	530.8	508.5	493.1	486.8	470.1	449.8
65°	453.3	559.5	591.6	558.1	515.5	463.1	443.5	430.3	424.0	414.2	398.8
67.5°	357.6	440.0	475.0	447.0	431.0	393.9	380.7	373.0	367.4	360.4	347.1
70°	273.8	331.1	367.4	361.1	348.5	331.1	322.0	317.1	311.5	305.9	294.8
72.5°	206.7	241.7	275.2	280.8	271.0	271.0	263.3	261.9	259.1	252.1	247.3
75°	146.0	173.2	197.0	206.0	210.2	213.7	210.2	209.5	208.8	203.3	199.8
77.5°	101.3	118.7	134.8	150.9	156.5	161.3	162.0	164.8	162.7	159.3	157.9
80°	73.3	76.8	87.3	100.6	111.1	115.2	118.0	119.4	118.7	118.0	115.2
82.5°	48.2	51.0	54.5	62.9	71.2	78.9	80.3	79.6	81.7	82.4	80.3
85°	28.6	29.3	30.7	32.1	37.0	44.7	46.8	48.2	49.6	49.6	45.4
87.5°	11.2	10.5	11.9	11.9	14.0	14.7	18.9	22.4	23.0	20.3	20.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1631.6	1631.6	1631.6	1631.6	1631.6	1631.6	1631.6	1631.6	1631.6	1631.6	1631.6
2.5°	1596.7	1587.6	1581.3	1567.4	1558.3	1548.5	1538.7	1545.0	1544.3	1543.6	1543.6
5°	1549.9	1533.9	1519.2	1500.3	1488.4	1473.8	1462.6	1461.2	1464.0	1454.2	1448.6
7.5°	1505.9	1485.0	1464.0	1444.4	1422.8	1406.0	1395.6	1391.4	1383.7	1377.4	1371.8
10°	1459.1	1433.3	1413.0	1387.2	1363.4	1342.5	1329.2	1320.1	1315.2	1310.3	1301.3
12.5°	1410.9	1385.8	1358.5	1328.5	1306.1	1281.0	1271.9	1261.4	1251.0	1245.4	1232.1
15°	1364.1	1331.3	1304.1	1273.3	1248.2	1224.4	1210.5	1190.2	1187.4	1180.4	1167.8
17.5°	1318.7	1282.4	1242.6	1221.6	1196.5	1171.3	1149.0	1142.7	1121.8	1114.8	1102.9
20°	1262.8	1230.0	1201.4	1171.3	1130.1	1107.1	1090.3	1081.2	1065.2	1055.4	1048.4
22.5°	1214.6	1181.1	1146.9	1110.6	1078.4	1051.9	1040.7	1025.4	1018.4	1003.7	996.0
25°	1169.2	1132.9	1093.1	1055.4	1030.9	1011.4	991.8	979.3	966.7	960.4	946.4
27.5°	1114.1	1077.7	1039.3	1010.0	982.1	962.5	943.6	933.2	917.1	906.6	898.9
30°	1070.1	1025.4	993.2	967.4	929.0	910.8	897.5	883.6	872.4	861.2	853.5
32.5°	1019.1	979.3	949.2	915.7	888.5	868.2	850.0	838.2	829.1	818.6	810.9
35°	965.3	931.1	899.6	867.5	845.9	825.6	805.3	794.9	785.8	776.0	769.0
37.5°	916.4	884.3	854.9	824.2	797.7	780.2	763.4	756.4	743.9	736.9	729.9
40°	871.7	840.3	808.1	778.8	750.9	738.3	723.6	711.7	700.6	695.7	688.0
42.5°	822.8	791.4	765.5	733.4	711.7	693.6	680.3	667.0	659.4	651.7	648.2
45°	774.6	746.7	720.1	688.7	667.0	652.4	637.0	625.1	617.5	612.6	604.9
47.5°	728.5	699.9	673.3	645.4	624.4	607.7	591.6	583.9	573.4	567.9	562.3
50°	677.5	652.4	623.7	598.6	577.6	560.9	548.3	537.8	528.7	521.1	517.6
52.5°	630.7	603.5	579.7	556.7	534.3	514.8	503.6	492.4	486.1	477.1	472.9
55°	578.3	552.5	531.5	508.5	486.8	470.8	456.8	447.0	440.0	430.3	424.7
57.5°	530.1	507.8	481.9	461.7	438.6	426.1	414.2	400.2	391.8	384.2	378.6
60°	481.2	454.7	433.1	414.2	394.6	377.2	366.7	356.2	347.1	339.5	334.6
62.5°	430.3	407.9	387.7	366.7	349.2	334.6	322.0	313.6	305.9	301.7	296.9
65°	377.9	359.7	338.8	322.0	305.2	294.1	284.3	276.6	271.0	267.5	263.3
67.5°	329.7	312.2	293.4	275.9	264.7	255.6	248.7	241.7	238.9	234.7	231.9
70°	282.9	264.7	248.7	236.1	224.9	218.6	214.4	209.5	206.7	201.2	198.4
72.5°	231.9	220.0	209.5	199.8	191.4	185.8	180.2	173.9	169.0	162.7	160.0
75°	190.7	178.8	169.7	162.7	157.2	149.5	141.8	135.5	133.4	131.3	130.6
77.5°	148.8	141.1	134.1	128.5	120.8	113.9	111.8	110.4	109.7	108.3	108.3
80°	111.1	104.1	99.2	92.2	88.0	88.0	88.0	86.6	87.3	87.3	87.3
82.5°	75.4	69.1	67.1	65.7	65.7	66.4	66.4	67.1	66.4	67.8	67.1
85°	42.6	43.3	44.7	44.0	44.7	44.7	46.1	45.4	46.1	44.7	46.1
87.5°	19.6	21.7	22.4	23.0	23.7	23.0	23.7	23.7	24.4	24.4	24.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P242568

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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1631.6	1631.6	1631.6	1631.6
2.5°	1535.2	1534.5	1535.2	1532.5
5°	1446.5	1445.8	1443.7	1437.5
7.5°	1366.2	1364.8	1359.2	1360.6
10°	1296.4	1297.1	1288.7	1283.8
12.5°	1228.6	1224.4	1218.1	1212.6
15°	1170.6	1163.7	1146.9	1148.3
17.5°	1098.7	1093.1	1092.4	1082.6
20°	1037.2	1033.7	1035.1	1025.4
22.5°	989.0	985.5	977.9	976.5
25°	942.2	936.7	931.1	934.6
27.5°	894.7	890.6	884.3	884.3
30°	850.0	845.9	843.1	839.6
32.5°	804.6	804.6	799.1	799.1
35°	766.2	762.0	760.6	761.3
37.5°	729.2	723.6	720.8	718.0
40°	688.7	683.1	681.7	680.3
42.5°	643.3	641.9	641.2	638.4
45°	602.8	602.1	597.9	599.3
47.5°	559.5	556.0	553.9	556.0
50°	514.8	513.4	507.1	508.5
52.5°	470.1	463.8	462.4	461.0
55°	419.8	413.5	410.7	409.3
57.5°	370.2	368.1	365.3	367.4
60°	327.6	327.6	327.6	326.9
62.5°	294.8	292.7	292.0	293.4
65°	261.2	260.5	257.7	257.0
67.5°	230.5	227.7	227.7	226.3
70°	194.9	193.5	189.3	190.0
72.5°	156.5	155.1	155.1	153.7
75°	129.9	129.2	128.5	131.3
77.5°	108.3	108.3	109.0	107.6
80°	87.3	87.3	86.6	86.6
82.5°	65.7	66.4	67.1	65.7
85°	46.1	45.4	46.8	46.1
87.5°	25.8	24.4	24.4	25.1
90°	0.0	0.0	0.0	0.0

TEST NUMBER: P242568

CATALOG NUMBER: S123RDRP-S1165D830-X4F0-XX-UDD-A-W

**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	18.01	19.50	18.37	19.81	20.13	21.40	22.90	21.77	23.21	23.52
	3H	19.10	20.44	19.48	20.77	21.13	22.81	24.15	23.19	24.48	24.84
	4H	19.44	20.69	19.84	21.04	21.42	23.31	24.57	23.71	24.92	25.29
	6H	19.68	20.84	20.10	21.21	21.60	23.66	24.82	24.08	25.19	25.58
	8H	19.75	20.85	20.18	21.24	21.64	23.77	24.87	24.19	25.26	25.66
	12H	19.79	20.84	20.22	21.22	21.65	23.83	24.88	24.26	25.26	25.69
4H	2H	18.99	20.24	19.39	20.59	20.97	21.64	22.90	22.04	23.24	23.62
	3H	20.16	21.19	20.57	21.59	22.00	23.33	24.37	23.75	24.77	25.17
	4H	20.54	21.48	20.98	21.89	22.33	23.95	24.88	24.38	25.30	25.74
	6H	20.85	21.66	21.31	22.11	22.57	24.42	25.22	24.87	25.67	26.13
	8H	20.94	21.70	21.41	22.15	22.61	24.56	25.31	25.02	25.76	26.23
	12H	21.00	21.68	21.48	22.16	22.63	24.66	25.33	25.14	25.81	26.28
8H	4H	20.91	21.67	21.37	22.11	22.58	24.00	24.76	24.47	25.20	25.67
	6H	21.28	21.91	21.78	22.40	22.88	24.54	25.16	25.03	25.65	26.13
	8H	21.42	21.98	21.93	22.49	22.98	24.73	25.29	25.25	25.80	26.29
	12H	21.52	22.01	22.03	22.50	23.07	24.89	25.38	25.40	25.87	26.44
12H	4H	20.94	21.62	21.42	22.09	22.57	23.99	24.66	24.47	25.14	25.61
	6H	21.33	21.89	21.84	22.40	22.89	24.52	25.08	25.04	25.60	26.08
	8H	21.50	22.00	22.01	22.49	23.06	24.76	25.25	25.27	25.74	26.31